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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

MISSOURI and ARKANSAS

DRAINAGE BASINS

February 1, 1942

Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

February 10, 1942

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Tebruary 10, 1942

SNOW SURVEYS AND IRRIGATION WATER FORECASTS FOR MISSOURI AND ARKANSAS RIVERS February 1, 1942

Precipitation records are supplied by the U. S. Weather principally by field personnel of the following organizations: Forest Service, National Park Service, Bureau The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the of Reclamation, U. S. Geological Survey, War Department and State Experiment Stations. This work is otherwise conducted cooperatively with the State Engineers of Wyoming and Colorado, and various municipalities, Division of Irrigation, Soil Conservation Service, of the U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. The snow measurements are made irrigation associations, power companies and others.

PRECIPITATION DATA

		Precipitation	Departure	Precipitation	Departure
WATERSHED	STATE	October 1 to	from		from
		January 31	Normal	January	Normal
		Inches	Inches	Inches	Inches
Missouri	East. Mont.	2.32	-0.16	0.19	10.34
Missouri	Cent. Mont.	3.38	42.04	0.54	-0.14
Missouri	North Wyo.	5.79	10.22	0.93	-0.57
North Platte	Wyoming	4.27	40.71	0.52	-0.34
South Platte	Colorado	4.95	+1.55	0.80	+0.38
Arkansas	Colorado	4.21	+1°54	64.0	60.0-

Over the North Platte mountain drainage, the October-January rainfall was about 3/4-inch above normal, but during January a deficiency of 1/3-inch occurred. For the upper drainage of the South Platte in Colorado, the precipitation was about 13 inches above normal for the October-January period and 1/3-inch in excess for this last month. The accumulation of precipitation, since October first, over the Missouri drainage in Montana is approximately normal and in Wroming, slightly above. During January the precipitation was subnormal in these areas. Precipitation was about 14 inches above normal over the past four months for the upper Arkansas drainage but slightly less during January.

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SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA

WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

WA THE SHIELDS	San	Snow Denth	4+2	Motor.	Cont on t	+ 40	Number	1			1942 Water	0
	Seven			Seven	000	0110	in ses	Snow	Snow Density		in Percent	nt of
A STATE OF S	Year	1941	1942	Year	1941	1942	Average	Year	1941	1942	Year	1941
	1200	-	1	200	+	1		AVB.*	1.		Avg.*	
	*117	TITE	Tu.	· ur	In.	Tu.		Fercent	Fercent	Percent		
MISSOURI RIVER												
Jefferson River	25.7	25.0	32.0	6.2	6.3	8.0	r	24	25	25	129	127
Madison River	39.7	140.8	41.1	10.0	10.7	10.3	10	25	26	25.	103	90
Gallatin River	25.5	21.0	33.2	50.00	7.7	7.0	۲	27	772		121	727
Wissouri River**	20.0	14.7	22.5	7.6	3.2	0.9	4	22	20	27	120	- 122
Marias River	30.0	25.5	17.0	1.6	7.7	7-6	Н	30	50	10		200
Yellowstone River	1	1	1	1	-	1	1	1	1	- 1	1	1
Shoshone River	35.2	43.4	1 36.6	0.6			Н	56	77.	56	108	16
Bighorn River	21.7	80.9	22.8	4.8			11	22	23	7	100	100
North Platte River	42.1	33.1	39.4	10.2		80	10	72	23	22	98	116
Sweetwater River	25.3	26.5	24,1	5.1			Н	8	25.	15	73	57
Laramie River	25.2	19.4	25.6	5.7			6	23	23	22	000	124
South Platte River***	17.4	16.7	30.6	2.8			1	197	17	100	132	176
Crow Creek	14.6	10.1	14.6	3.0			\ 1	7	27	18	200	96
Poudre River	25.4	18.4	25.7	0.9			7	†2	25	20	87	113
Big Thompson River	34.6	27.8	34.2	4.8			. cu	72	27	22	- 60	128
	26.0	19.4	31.6	5.7			٦	22	11	7,7	133	345
Boulder Creek	7.02	15.6	17.3	5.2			2	22	19	25	750	747
Clear Creek	26.3	25.5	29.5	9.4	3.9		7	17	15	16	104	123
									1			•
ARKANSAS RIVER	28.2	30.6	27.2	1.9	4.9	5.5	700	22	21	20	90	98

^{***}Above Denver, Colo. *Some for shorter periods. **Headwaters of Wissouri River

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SURVINE OF EMPERICAL T SHOW SHEARES THE CONTINUES OF DEVICE SHOWING THE DESCRIPTION OF DEVICE SHOWING THE PROPERTY OF THE PROP

The water content of the snow cover on the watersheds of the Wissouri and its tributaries shows an average of about 1/3 more in comparison with that a year ago and 1/5 more than the five-year average. Snow cover on the watershed of the Marias River is much below normal.

of a year ago. Stream flow last fall was much above normal and reservoir filling in this area good to excellent. The soil moisture conditions are good. The present indications for an irrigation water supply in this section of WYOMING. Snow cover in the Big Horn mountains, upper Wind River country, is normal at this time and equal to that

Myoming are quite favorable.

For the North Platte River drainage, the recent surveys indicate the water content of the snow to be 16 percent more than last year and about an equal amount less than the past seven-year average. Reservoir storage is good in Battle snow course measured 16,2 inches recently, in comparison with 13,3 inches last February first. The present better than last year at this time, with soil moisture the best in years. The water content of the snow on Old general conditions over the North Platte drainage are favorable for ample irrigation supply this coming season. Snow conditions in North Park in Colorado are the valley, soil moisture fair to good; and stream flow normal.

in comparison with the past seven-year average, and nearly 25 per cent better than a year ago. In the Laramie valley The water content of the snow cover in the high mountain country of the Laramie River drainage is about normal, to State Line, there has been little snow so fer this winter. Stream flow during the past months has been good and

soil moisture good to excellent in both mountain and valley areas. The present outlook for next season's water

better than a year ago and 32 per cent more than the past seven-year average. The snow cover on the tributaries of the South Platte, in northern Colorado, is, on the whole, improved at this time, the percentages varying from about supply is quite promising at this time. COLORADO. On the upper South Platte River drainage the water content of the snow is at present about 75 per cent normal to more than twice that of a year ago. Over this northern section of the State, the water content of the snow at this time is approximately 10 per cent less than the seven-year average.

Stream flow during the past fall and early winter has been good, better than last year for the same period. Soil moisture in both the mountain and valley areas is good to excellent. The reservoirs in the lower Platte Valley are well filled at this time, with indications that full capacity will be reached. Storage along the tributaries Generally, the outlook for water supplies in this part of Colorado is is about normal for this time of year.

encouraging at this time.

all major reservoirs full. Last year at this time these were empty. Soil moisture in both the mountain and valley flow of the river and tributaries has been well above normal, with a considerable amount of water flowing over the State Line into Kansas. The storage in valley reservoirs at this time is the best in many years, with practically per cent less than the seven-year average and 14 per cent less than it was a year ago. The fall and early winter Over the Arkansas River drainage, high mountain country, the water content of the snow cover is now about 10 areas is good. The present outlook for irrigation supplies in this valley for the coming season is especially good in view of the large amount of water now in storage.

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Of a year ago. Stream flow lost thil was mide show normal and reservoir filling in this area good to excellent.

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WENNING. Show cover in the Dis Hora monthale. Abber Mind Hiver cometry, is nermal at this time and edual to that value ago, and the hinteries and edual to that to that the list this time and edual to that value ago, and the water contents on the water ago, and the shows an average. The soil moisture conditions are goods.

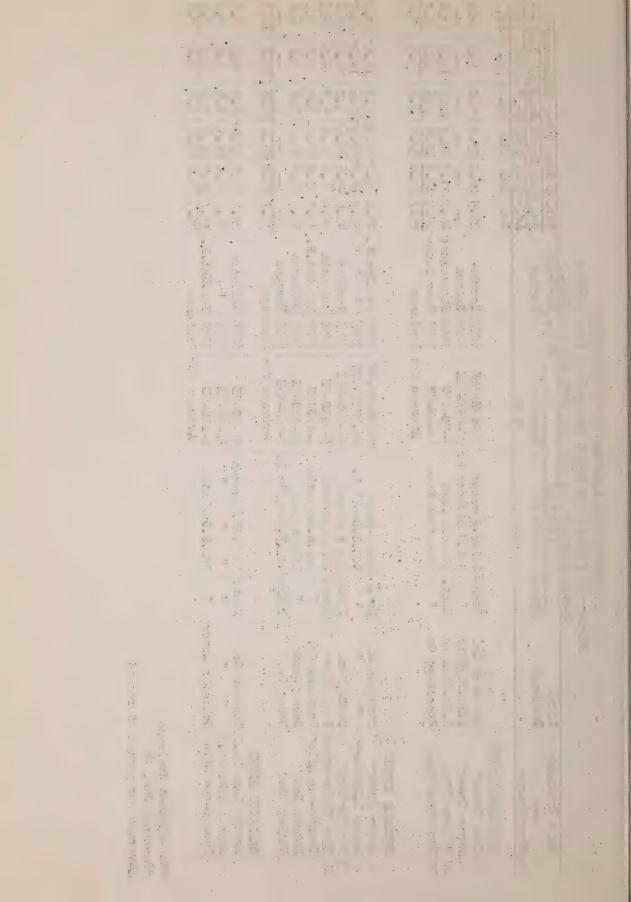
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Summary of Federal and State Cooperative Snow Surveys

		Issued February 10, 1942, at Fort Collins Colo.	2, at Fort Collins. Col	0				
Main Drainage		Location	Elev National	nal	Feb. Snow Cover Nessmann	Morrow Mo	2000	1
Mo Snow Assured	Drainage	State Locality	l -d		Av. Snow Depth Av. Water Content	h Av Wa	ter Con	tent
TACTOR CONT. SE			tion		Av. @ 1941 194	2 AV @	1941	1942
JEFFERSON RIVER					In. In. In. In.	In.	In.	Ino
6 Camp Creek*	Red Rock Cr.	Idaho 6mi .N.Spencer	21-17N-76E 6800 Targhee	anda	1000 0 90 3 60	U	-	
7 Moose Creek*	N.Fk.BigHole			Salmon		000	T • 0	2
10 Gibbons Fass	N.FK.BigHole	Mont. Gibbons Pass	7100	terroot	41 02 37 - 5 49	7 10.9	70,0	17 2 1
30 Pipestone Pass	Pipestone Cr.	Pipestone Pass	11-1N-7W 7200 Deer Lodge	r Lodge	13.5 11.6 17.4	2.6		700
			Average for Drainage		25.7 25.0 32.	0 6.2	6.3	8.0
MADISON RIVER					-			
2 Aster Creek*	Firehole R.	Wyo. Lewis Lake	44. 3N110.6W 7700 Yel Nat. P	D + CN	21/4-C 01/ U-21	ס רודב		7
8 Lewis L.Divide*	=======================================			=	740 40 000	V + 1 + 0	10 04	7.00
3 Big Springs*	South Fork		6500	Targhee	1 T T C T C T T T T T T T T T T T T T T	10	77.0	10.01
16 West Yellowstone	South Fork	Mont. W.Yellowstone	6700	d	12 4 96 6 95	7	1 - 2	2
Twenty-one Wile* Greyling Cr.	Greyling Cr.	" Smi .S.Gallatin	7150	Д	73 7 30 3 41	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.7	
Hebger Dam	Cabin Creek	" Hebgen Dam	65.50		33.2 29 4 30	7-4		2
Valley View	Denny Cr.	Idaho 5mi.E.Henry's L.	6500	ghee		- 1		
GALLATIN RIVER			Average for Drainage		39.7 40.8 41.1	10.0	10.7	10.3
Mystic Lake No.1 Bozeman Gr.	Bozeman Cr.	Mont. 12mi.SE.Bozeman	31-35-73 6600 Gal	Gallatin	0.02 0.21 2.00	-	4.0	7
Mystic Lake No.2	11 11	11	6600		20 2 1.5 0 26	7	7 1	7 C
Twenty-one Mile	Gallatin River	" Smi.S.Gallatin	7150	.Nat.P.	33.7 30.0 41.0		1.	1.6
			Average for Drainage		25.5 21.0 33.8	5.00	5.1	7.0

*On adjacent drainage

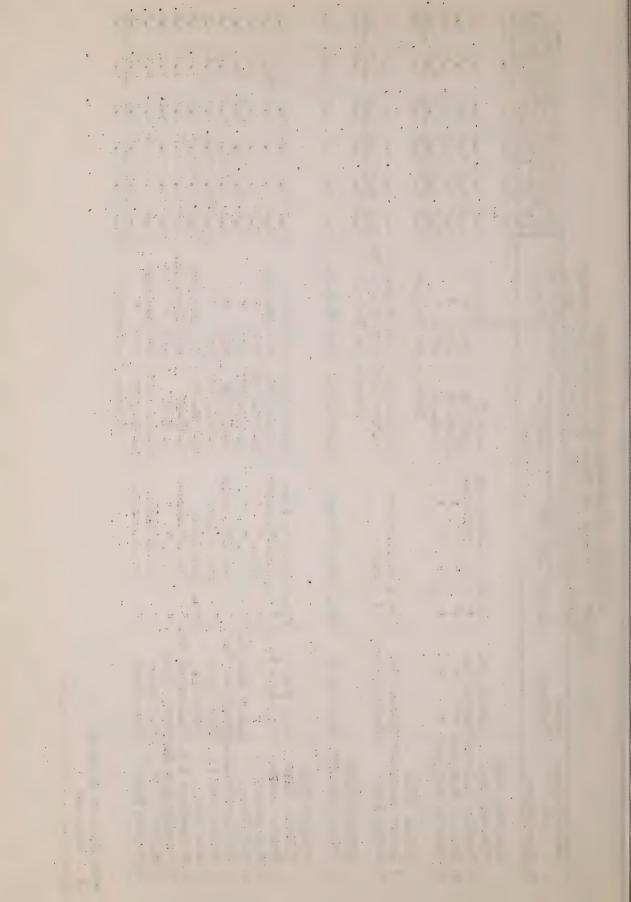
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Summary of Federal and State Cooperative Snow Surveys

*On adjacent drainage
E - Estimated

@Average for period of record



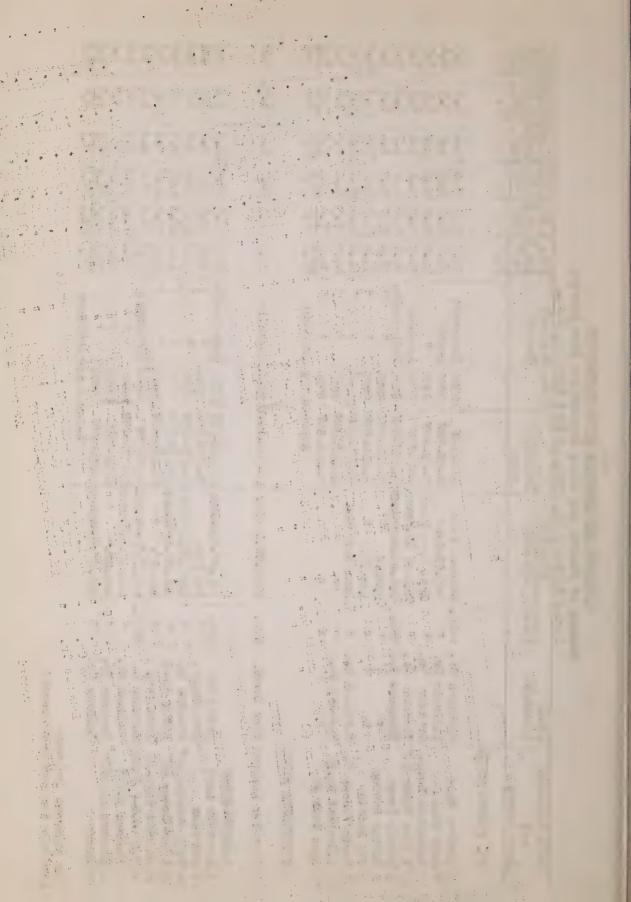
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MISSOURI AND ARKANGAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys Issued February 10. 1942. at Fort Colling. Colo.

	1	1	10	1			-4			*^			_	110	17.													
	lenta	Content	1942	In.	1000 - 1000	00	7.4	11.7	7-1	10 g	200	7001	0	9.9	80		3.7		7 01	1 L	100	7,0	1,7	7.7	9	5.2	0.6	RA
	Measurement	4	1941	In.		9.8	3.5	6	2.7	100	2007	J. C. C.	コート	7.	1.6		6.5		7	7	70	7-6	7,00	4.6	4.6	7.7	200	7
	1		AV @	In		10.4	5.0	12.8	0	7.00	100	16.0	12.4	180	10.2		5.1		1) r.	7 0	1	, r	4.7	6.2	5.0	7.6	1 1
	w Cover	epth.	1942	In.			24.5		31.8	30.7		140 -7		-	39.4		24.1	and the second	Z Z	7 7 7	77.	18	200	22.0	32.9	28.0	34.8	25.6
	1 Snow	Snow D	1941	In.			N			PERSONAL WAS ASSESSED.	2	2	Wet when the	1	33.1	- 0. 0.000	26.5					7-1		14.1		18.5		70
	Feb.	Ave S	3	In.		38.8				30.1				34.5	42.1		25.3	Mario And Strategy Control	77 E		277							25.0
Collins, Colo.	National	Zorest				velt	42		Arabano	MedicineBow	=======================================	=	=======================================	# #	Drainage		Washakie		Modioing	-	=	**	n n	Roosevel t	=======================================	22	=	Drainson
	Elev.									8500	0000	0200	0016	8400	for	w 656 - Tr. 100 4	9000		0000		8700	8700	9500	-	10200	0200	9800	10 A C
1942, at Fort		Descrip-	ti on		pelikhilip anniamily		24-28-18W	W28-N2-12	1-45/- CA	074-14N-85W	29-1141-8万里	27~16II~80W	30-16N-80W	34-16N-81W	Average	order Cvis. Arter	19-30M-100W		- MOT-167-1-1	21-131-781	35-15M-72W	29-16M-78W	24-16N-79W	7-821-75W		M-12-186-9	5-10N-77W	Average
repruary 10,	Locati on	Locality				Cameron Pass	mi • SE • Rand	Millor Cars Pass	or days	Omi W in war in the	12mi W. m	Cent/Saratoga		= =			20mi.SW.Lender		7mi JW Cntenni		10mi .SE Leremie 7-15W-	3mi .NW . Cn tennial		4mi.N.Chambers17-8N-75W	10mi.W.R.Feather26_10N-75W	8mi.SW." m	Smi.NW.Glendevy5-10N-77W	
rssned		State			,	.0T05	: 5	: =	Merc	• >> ==	=	=	=	=	-		Wyo		MVO		=	=	dans dans	Colo.	=	=	1 2	
		Drainage					ro.	Thinois Cr	Thomant Cr		п	N.French Cr.	Barrett Cr.	=======================================					Nash Fork		Soldier Cr.	Libby Greek	Wash Fork		Deadman Cr.	Deadman Cr.	LaGarde Cr.	
	rainage		NO SHOW COURSE	NO. PLATTE RIVER		Dowl Wass	8 70	32		Webber Spring	9 Old Battle	North French Cr.	N.Barrett Cr.#2	Ryan Park #2	CENTRAL GENERAL CONTRACTOR	שם אדע שבו שאוההאים	Grannier Meadows Rock Greek	LARAMIE RIVER	Brooklyn Lake		Pole Mountain#2*	Libby Lodge #2	Hairpin Turn #2	W.Port.G-P.Tunnel	Deadman Hill*	Deadman Hill#2*	Roach	
-	7	- L	OM	<u> </u>		1 1	- 0	000	7	- 60	6	37 12	38	39 #			29	H	3 3	11 E	34 P	35 I	36日	7	900		000	000

*On adjacent drainage



Summary of Federal and State Gooperative Snow Surveys Issued Rehmany 10, 1942 at Fort Colline, Colo

			TSST	Issued February 10, 1942, at Fort Collins, Colo.	.942, at Fort	Collin	s, Colo.					
-	Main Drainage	Local		Location		Elev.		Feb.	1 Snow Cover Measurements	Jover Me	asurem	ents
	and	Drainage	State	Locality	Descrip-			Av. S	Av. Snow Depth Av. Water Content	th Ave Wa	ter Co	ntent
No.S	No Snow Course				tion			Av.®	1941 19	42 AV @	1941	1942
U	CHITTE STATE STATES	2						In.	In. In.	In	In.	In.
17T	Hoosier Pass	Platte R.	G010.	Hoosier Pass	13-85-78W	11400 Pike		26.0	92 9		7	IC.
15	Fairplay		=	Fairplay	33-98-77W	10000		50	5.0 9.8 6.0	0 0.5	00	0
83 3	Jefferson Cr.#2 Jefferson Cr.	Jefferson Cr.	=	efferson	14-75-76W	10100	=	21.1	18.3 26.		2.6	4.5
					Aver	age for	Average for Drainage	17.4	16.7 20		2.1	3.7
34 E	GROW CREEK 34 Pole Mountain#2 Grow Greek		Wyo.	10mi.SE.Leremie	35-15N-72W	8700	8700 MedicineBow	14.6	10.1 14.6	6 3.0	2.7	2.6
14	POUDRE RIVER											
1 0	Cameron Pass	Joe Wright Cr. Colo.	Colo.	Cameron Pass	2-6N-76W	10300	Roosevelt	38.8	30.3 37.	37.0 10.4	9.8	8.3
2	Chambers Lake	Poudre River	=	Chambers Lake	6-7M-75W	0006	=	14.8	8.8 12.1	1 3.8	3.2	3.1
3 日	Big South	=	=	2mi .H. Chambers L.	33-8N-75W	8600	=	5.4	3.5 4	5 1.1	1.2	0.5
	111	N. Poudre R.	=	10mi.W.R.Feather	26-10N-75W	10200	=	29.0	21.5 32.	9 6.2	9.4	0.9
5	Lake Irene*		=	lmi.SW.Milner P.	8-5N-75W	10600	10600 Ry . Mtn . N . P .	00 14	34.5 44.	9 12.5	7.7	10.3
1 89 E	Hour Glass Lake		=	2mi.M.PingreeP.	18-7N-73W	9500	9500 Roosevelt	17.6	11.5 20.	4 303	2.2	2.9
71 11	Deadman Hill #2	N. Poudre R.	=	8mi.SW.R.Feather	Mt2-16-9	10200		24.9	18.5 28.0	0 20	3.7	5.5
					Aver	age for	Average for Drainage	25.4	18.4 25.		7.6	5.5
	Lake Trene*	שים שים שיש	2	Two with Mist and	Q EN 7EW	00901	Dr. Mtm N D	11	7)1 E 11)1	10 T	7 11	70.2
95 H	eyNc	2HiddenVal Cr	110000	9mi W Estes P	23-5N-74W	9550	THE HE HE HE	22.2	21 0 23 4	なった。	1	4
		T			Avera	age for	Drainage	34.6	27.8 34.	2 8.4	5.8	7.4
	ST. VRAIN RIVER	t 10 10			אווער זוני וני	000	7	,	-		C	7
	wild basin	N. St. Vrain K. Colo.	COTOS	omi.w.Allens F.	24-3N-(4M	10000	10000 ky . Mtn . N . P . 26.0 19.4 51.6	0.97	19.4 21.	2.6	7.7	0.)
14	BOULDER CREEK											,
E C	E.Port, Moffat T.S.Boulder Cr.	S.Boulder Cr.	Colo	East Portal	2-25-74W		Roosevelt	200	10.7 6.8	200	7.1	1.0
3	ourversity camp#dw.bourder cr.	M.Boulder Cr.	=	5m1 • 5w • ward	ZS-IN-(5W	Average for	Troins go	21.00	31 3 20 3 21 8		2 2	4
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*On adjacent Drainage

*	*Oscillations of the continues of the co			1 9			
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Summary of Federal and State Cooperative Snow Surveys Issued February 10. 1942, at Fort Collins. Colo.

		T	sued re	issued represent 10, 1942, at fort Collins, Colo.	at Fort Col	lins, C						· · · · · · · · · · · · · · · · · · ·	
	Main Drainage	Local		Location		Elev.	Elev. National	Febo	1 Sno	M COVE	er Mea	sureme	nts
	and	Drainage	State	Locality	Descrip-			Av. S	now D	ap th !	tr. Was	Av. Snow Depth Ars Water Content	tent
No	No Snow Course				tion			Av.	1941	1942	D	1911	1942
	CLEAR CREEK							In.	In. In. In. In.	In.	n.	ln.	In.
61	#2	Clear Creek	0010	Colo. 10mi .W. Georgetown 27-48-76W	27-45-76W	10100	10100 Arapaho	26.3	25.5	29.5	9.4	3.9	7
26	97 Grizzly Peak*	=	=	lmi.W.Loveland P 2-59-76W		112501 Dreinage	=	26-7 26-6 29 6 11-6	1 2 1	34.00	1 7 7	10 2	600
	ARKANSAS RIVER										•	0.0	0
(
100	19 Tennessee Pass	Cr.		Colo. Tennessee Pass	21-85-80W 10200 Cochetopa 24.0 21.2 26.4 4.2	10200	Cochetopa	24.0	21.2	56.4	4.5	3.1	5.1
ቨ.		Lake Creek		Kes	22-115-82W	10500	= 1	26.3	23.6	25 et	1.9	4	10, 0.
45	*	Poncha Cr.	=	Marshall Pass	19-184-48	10800	=	31.0	34.5	9008	7.0	7.8	4.9
43	43 Foncha Creek	#	=	-	19-48N-7E	10500	E	25.5	33.4 6	23.5	6.5	1.9	6.1
72	72 Whiskey Creek #2 Whiskey Cr.	Whiskey Cr.	F	Whiskey Cr.Pass	37.2N105.2W	10300	Maxwell Gr.	14.7	25.4	6.2	3.9	7.0	7.4
177	LaVeta Pass#2*	Cuchara Cr.	E	LaVeta Pass	22-285-70W	9300	SanCristoGr	20.3	29.1	16.7	0.4	†•9	2.57
78	18 Four Mile Park#2 Lake Creek	Lake Creek	E	Zmi .SW .Twin L.	23-115-81W	9700	Cochetopa	-	12.7	1	-	2.5	1
79	Fremont Pass #2 E.Fork Ark.R.	B. Fork Ark. R.	*	Fremont Pass	2-88-79W	11400	11400 Arapaho	39.0	33.31	t2.3	200	4.8	8.1
92	92 Monarch Pass	S.Fork Ark.R.	E	Monarch Pass	E9-N64-91	100201	10500 Cochetopa	45.2 44.3 46.2 9.4	1403 1	16.2		10.0	8.0
					Average for	for Drainage		28.2	30.6	27.2	-	†*9	5.5

*On adjacent drainage

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Monored Rass (23.20% Art. R. Tomoses Cr. Remont Passes (23.20% Art. R. Remont Passes (23.20% Art	S. TONE VAC S. D.	# # 3 # # 3 # # B	Terrette Pess April 1 Bess April 1 Bess April 2 C. Bes	A COLUMN TO THE PARTY OF THE PA	200000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MED CHANGE	NEW PARKS A RES	Mary Tracker	TEN PROPER	HPRO TOPROLE
PEATE STATE			1		- 0						
GLT ENTY BORRS	Diest Creek		S has to role We had	107-27-78 N	10000	* Archero	S	1 2	N 5 18	1 2 E	
CLEAR CHEEK								In. In.			
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